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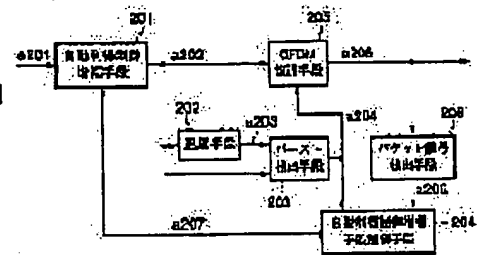   MIZOGUCHI MASATO
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(54) AUTOMATIC GAIN CONTROL CIRCUIT AND AUTOMATIC GAIN CONTROL METHOD FOR OFDM DEMODULATOR

(57)Abstract:
PROBLEM TO BE SOLVED: To attain excellent reception signal gain control with a short AGC preamble signal by controlling an automatic gain control amplifier means with output signals from a burst detection means that detects a prescribed signal and a packet signal detection means via a control means for the automatic gain control amplifier means.

SOLUTION: An OFDM reception signal a201 is given to an automatic gain control amplifier means 201 in the demodulator, and an output signal a202 of the automatic gain control amplifier means is given to a delay means 202. A burst detection means 203 detects a burst by using the output signal a202 from the automatic gain control amplifier means and anoa203 from the delay means. The output signal a204 from the burst detection means is given to a control means 204 for the automatic gain control amplifier means 201 to provide an output signal a207 from the control means for the automatic gain control amplifier means to control the automatic gain control amplifier means 201. On the other hand, the output signal a202 from the automatic gain control amplifier means is given to an OFDM demodulation means 205, where the signal is processed and from which output data a205 are obtained.

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